## JCM_ID_AM006 explanation of revision

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Part 1

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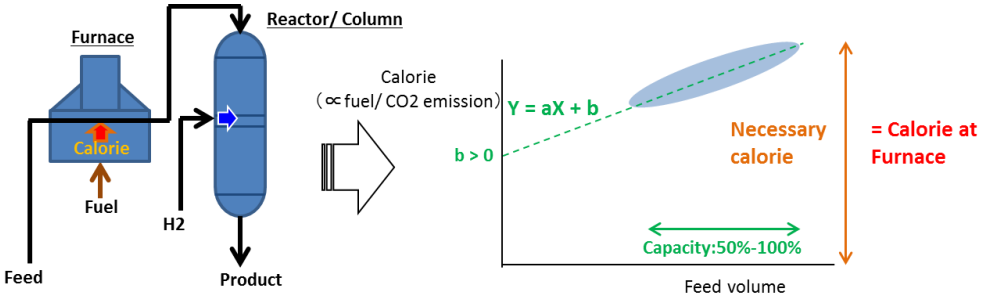
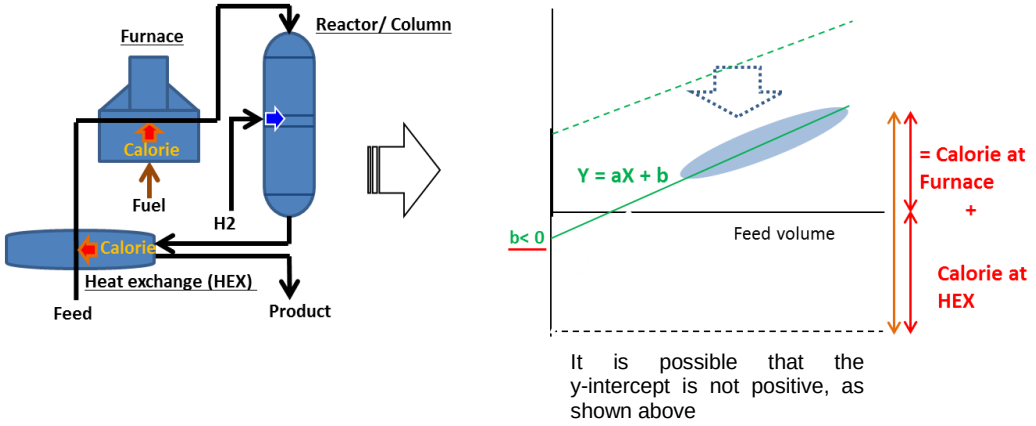
(1) The methodology originally incorporated only the furnace, reactor and column, as shown below.
In this case, the y-intercept of the correlation between feed volume and energy consumption is positive as the furnace has its heat capacity independent of the energy required to process the feed.

< Furnace model example>




(2) As a result of subsequent detailed study of its application to the actual plant, it was found that heat exchangers (which are used for heating the feed) needs to be taken into account. Since the heat supplied to the reactors and the columns is not only derived from the fuel combustion but also from the feed itself, the y-intercept of the correlation equation need not be non-negative, as shown below.

< Furnace + HEX model example >




It is possible that the y-intercept is not positive, as shown above

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Part 2

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(1) Emission factor $EF_{HPU,p}$ is defined on methodology page I-12 and I-15. When the I-12 was refined, the I-15 was left unchanged.